1)	Application No.	Applicant(s)		
1	Notice of Allowability	09/803,418	CONWAY ET AL.		
		Examiner	Art Unit		
		John Richardson	3641		
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.				
1. X This communication is responsive to applicant's resonse dated May 10- 2004.					
2. X The allowed claim(s) is/are <u>21-32 and 34-36</u> .					
3. The drawings filed on are accepted by the Examiner.					
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:					
	1. Certified copies of the priority documents have been received.				
	2. Certified copies of the priority documents have been received in Application No				
	3. Copies of the certified copies of the priority documents have been received in this national stage application from the				
	International Bureau (PCT Rule 17.2(a)).				
	* Certified copies not received:				
	Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.				
	A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.				
	6. X CORRECTED DRAWINGS (as "replacement sheets") must be submitted.				
	(a) ⊠ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached				

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of

each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material

1) A hereto or 2) to Paper No./Mail Date ___

Paper No./Mail Date

5. Notice of Informal Patent Application (PTO-152) 6. Interview Summary (PTO-413),

Paper No./Mail Date _

7. X Examiner's Amendment/Comment

8. X Examiner's Statement of Reasons for Allowance

9. Other _____

MICHAEL .. SUPERVISORY PATERT SAFARRAR Application/Control Number: 09/803,418 Page 2

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EXAMINER'S AMENDMENT & REASONS FOR ALLOWANCE

1). An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Westerhoff (412-566-6090) on June 01 2004.

- Claim 30, line 2 change having a containment structure filled with a non-condensible gas to having a containment filled with an incondensable gas
- Claim 30, lines 7-8, change introducing the non-condensible gas to introducing the incondensable gas
- Claim 30, line 10, compress the non-condensible gas to compress the incondensable gas
- Claim 30, lines 14-15, change allowing the compressed non condensible gas; to allowing the compressed incondensable gas;
- Claim 32, line 2, change having a containment structure filled with a non-condensible gas to having a containment structure filled with an incondensable gas

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 Claim 32, lines 9-10, change introducing the non-condensible gas to introducing the incondensable gas

- Claim 32, line 12, change and compress the non-condensible gas; to and compress the incondensable gas;
- Claim 32, lines 15-16, change allowing the compressed noncondensible gas to allowing the compressed incondensable gas
- Claim 32, lines 16-17, replace to push water from the suppression tank into the reactor pressure vessel with to push water from the suppression tank into the flood-up cavity
- Claim 36, lines 1-2, change wherein the non-condensible gas to wherein the incondensable gas
- Claim 36, line 4, change using the non-condensible gas to using the incondensable gas
- Specification, 12, line 11, change (and in-condensable gas) to (and incondensable gas)
- 2). The following is an examiner's statement of reasons for allowance:
 - The instant application is deemed to be a non-obvious improvement over the inventions patented in U.S. Patents Numbers 3,941,187, 5,053,190, and 5,102,616 and the device described in non patent literature by Matzie et al and published in Nuclear Engineering and Design 136, (1992) pages 73-83. The

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improvement comprises an integral nuclear power reactor having a containment structure with at least one steam generator mounted with the reactor core in a pool of reactor coolant and capable of operating after a loss of coolant accident so that the reactor pressure vessel pressure is lowered to a pressure less than the said containment pressure in a predictable time period (less than about 3 hours), and also that by the provision of at least one suppression tank, that in the event of a loss of coolant accident, the said reactor core is covered with water by reducing pressure in the said reactor vessel through the removal of heat by selectively transferring water from the said suppression tank to a containment flood-cavity and the said reactor vessel.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

3). Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Richardson whose telephone number is (703) 305 0764. The examiner can normally be reached on Monday to Thursday from 7.00 AM to 4.30 PM. The examiner can also be reached on alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone, can be reached on (703) 306 4198. The fax phone number

for the organization where this application or proceeding is assigned is (703) 305 7687.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is (703) 308

1113.

John Richardson, PE,

June 01 2004.

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